

022004
1592 US PTOUTILITY
PATENT APPLICATION
TRANSMISSION

Our Docket No.:	Date: February 20, 2004
34091/AJT (465403-)	
First Named Inventor: PETER C. SALMON	
Title: COPPER-FACED MODULES, IMPRINTED COPPER CIRCUITS, AND THEIR APPLICATION TO SUPERCOMPUTERS	
Express Mail No.: EV 182098341 US	
US PTO 10/783662 22141	

ADDRESS TO:

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

APPLICATION ELEMENTS

1. Fee Calculation Sheet
(Submit an original and a duplicate for fee processing)

2. Applicant claims small entity status

3. Specification Total Pages: 27

- Descriptive title of the invention
- Cross References to Related Applications
- Statement Regarding Fed. Sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings
- Detailed Description
- Claims
- Abstract of the Disclosure

4. Formal Drawings (35 U.S.C. 113) Total Sheets: 19

5. Oath or Declaration and P.O.A. Total Pages: 3

- a. Newly Executed (original or copy)
- b. Copy from a prior application (37 C.F.R. 1.63(d)) (for continuation/divisional with Box 19 completed)
 - 1. DELETION OF INVENTORS
Signed statement attached deleting inventor(s) named in the prior application (37 C.F.R. 1.63(d)(2) and 1.33(b))

6. Application Data Sheet (37.C.F.R. 1.76)

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (If applicable, all necessary)

- a. Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
- c. Statement verifying identify of above copies

ACCOMPANYING APPLICATION PARTS

9. Certification Under 35 U.S.C. 122(b)(2)(B)(i)

10. Assignment Papers (cover sheet & document(s))

11. 37 C.F.R. 3.73(b) Submission

12. Power of Attorney (signed)

13. English Translation Document (if applicable)

14. Information Disclosure Statement (with Copies of Citations as necessary)

15. Preliminary Amendment Total Pages:

16. Return Receipt Postcard (Should be specifically itemized)

17. Certified Copy of Priority document(s) (if foreign priority is claimed)

18. Other:

19. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:
Continuation Divisional Continuation-in-part (CIP) of prior Application No.:

For continuation or divisional applications: The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 5b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference

CORRESPONDENCE ADDRESS

ATTY NAME	Maria S. Swiatek, Reg. No. 37,244 For Aldo J. Test, Reg. No. 18,048	SIGNATURE: 	DATE February 20, 2004
ADDRESS	DORSEY & WHITNEY LLP Four Embarcadero Center Suite 3400 San Francisco, California 94111-4187		Customer Number: 32940
TELEPHONE	(650)494-8700		
FAX	(650)494-8771		



15992

**APPLICATION
FEE TRANSMITTAL SHEET
(FY 2004)**

<i>Complete if Known</i>	
Application No.	Not yet assigned
Filing Date	Herewith
First Named Inventor	PETER C. SALMON
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Atty. Docket Number	34091/AJT (465403-)

METHOD OF PAYMENT (Check One)			FEE CALCULATION (Continued)																																																																																																														
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account No.: 50-2319 Deposit Account Name: DORSEY & WHITNEY LLP</p> <p><input checked="" type="checkbox"/> Charge any additional fee required under 37 C.F.R. 1.16 and 1.17 <input checked="" type="checkbox"/> Applicant claims small entity status (see 37 C.F.R. 1.27)</p> <p>2. <input checked="" type="checkbox"/> Check Enclosed</p>			<p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> <th>Fee paid</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>25</td> <td>Surcharge - late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>130</td> <td>65</td> <td>Surcharge - Late nonprovisional filing fee or oath</td> <td></td> </tr> <tr> <td>180</td> <td>180</td> <td>Submission of IDS</td> <td></td> </tr> <tr> <td>40</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td>110</td> <td>55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>420</td> <td>210</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>950</td> <td>475</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>1,480</td> <td>740</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>2010</td> <td>1005</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>770</td> <td>385</td> <td>Submission After Final 1.129</td> <td></td> </tr> <tr> <td>330</td> <td>165</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>330</td> <td>165</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>290</td> <td>145</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>110</td> <td>55</td> <td>Terminal Disclaimer Fee</td> <td></td> </tr> <tr> <td>130</td> <td>130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>50</td> <td>50</td> <td>Petitions related to provisional applications</td> <td></td> </tr> <tr> <td>1,330</td> <td>665</td> <td>Utility/Reissue Issue Fee (including advance copies)</td> <td></td> </tr> <tr> <td>480</td> <td>240</td> <td>Design Issue Fee (inc. advance copies)</td> <td></td> </tr> <tr> <td>770</td> <td>385</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td>300</td> <td>300</td> <td>Publication fee for early, voluntary, or normal publication</td> <td></td> </tr> <tr> <td>300</td> <td>300</td> <td>Publication fee for re-publication</td> <td></td> </tr> <tr> <td>110</td> <td>55</td> <td>Petition to Revive - unavoidable</td> <td></td> </tr> <tr> <td>1,330</td> <td>665</td> <td>Petition to Revive - unintentional</td> <td></td> </tr> <tr> <td colspan="3">OTHER FEE (specify):</td> <td></td> </tr> <tr> <td colspan="3">Subtotal (3)</td> <td></td> </tr> <tr> <td colspan="3">Total Amount of Payment:</td> <td>\$1119.00</td> </tr> </tbody> </table>			Large Entity Fee	Small Entity Fee	Fee Description	Fee paid	50	25	Surcharge - late provisional filing fee or cover sheet		130	65	Surcharge - Late nonprovisional filing fee or oath		180	180	Submission of IDS		40	40	Recording each patent assignment per property (times number of properties)		110	55	Extension for reply within first month		420	210	Extension for reply within second month		950	475	Extension for reply within third month		1,480	740	Extension for reply within fourth month		2010	1005	Extension for reply within fifth month		770	385	Submission After Final 1.129		330	165	Notice of Appeal		330	165	Filing a brief in support of an appeal		290	145	Request for oral hearing		110	55	Terminal Disclaimer Fee		130	130	Petitions to the Commissioner		50	50	Petitions related to provisional applications		1,330	665	Utility/Reissue Issue Fee (including advance copies)		480	240	Design Issue Fee (inc. advance copies)		770	385	Request for Continued Examination (RCE)		300	300	Publication fee for early, voluntary, or normal publication		300	300	Publication fee for re-publication		110	55	Petition to Revive - unavoidable		1,330	665	Petition to Revive - unintentional		OTHER FEE (specify):				Subtotal (3)				Total Amount of Payment:			\$1119.00
Large Entity Fee	Small Entity Fee	Fee Description	Fee paid																																																																																																														
50	25	Surcharge - late provisional filing fee or cover sheet																																																																																																															
130	65	Surcharge - Late nonprovisional filing fee or oath																																																																																																															
180	180	Submission of IDS																																																																																																															
40	40	Recording each patent assignment per property (times number of properties)																																																																																																															
110	55	Extension for reply within first month																																																																																																															
420	210	Extension for reply within second month																																																																																																															
950	475	Extension for reply within third month																																																																																																															
1,480	740	Extension for reply within fourth month																																																																																																															
2010	1005	Extension for reply within fifth month																																																																																																															
770	385	Submission After Final 1.129																																																																																																															
330	165	Notice of Appeal																																																																																																															
330	165	Filing a brief in support of an appeal																																																																																																															
290	145	Request for oral hearing																																																																																																															
110	55	Terminal Disclaimer Fee																																																																																																															
130	130	Petitions to the Commissioner																																																																																																															
50	50	Petitions related to provisional applications																																																																																																															
1,330	665	Utility/Reissue Issue Fee (including advance copies)																																																																																																															
480	240	Design Issue Fee (inc. advance copies)																																																																																																															
770	385	Request for Continued Examination (RCE)																																																																																																															
300	300	Publication fee for early, voluntary, or normal publication																																																																																																															
300	300	Publication fee for re-publication																																																																																																															
110	55	Petition to Revive - unavoidable																																																																																																															
1,330	665	Petition to Revive - unintentional																																																																																																															
OTHER FEE (specify):																																																																																																																	
Subtotal (3)																																																																																																																	
Total Amount of Payment:			\$1119.00																																																																																																														
<p>FEE CALCULATION</p> <p>1. BASIC FILING FEE</p> <table border="1"> <thead> <tr> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr> <td>160</td> <td>80</td> <td><input type="checkbox"/> Provisional Filing Fee</td> </tr> <tr> <td>770</td> <td>385</td> <td><input checked="" type="checkbox"/> Utility Filing Fee</td> </tr> <tr> <td>340</td> <td>170</td> <td><input type="checkbox"/> Design Filing Fee</td> </tr> <tr> <td>770</td> <td>385</td> <td><input type="checkbox"/> Reissue Filing Fee</td> </tr> <tr> <td colspan="2"></td> <td>Subtotal (1) \$385.00</td> </tr> </tbody> </table> <p>2. EXTRA* CLAIM FEES</p> <table border="1"> <thead> <tr> <th>Number Claims</th> <th>Prior</th> <th>Extra</th> <th>Fee from Below*</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>52</td> <td>- 20</td> <td>= 32</td> <td>× \$9.00 = \$288.00</td> </tr> <tr> <td>Indep.</td> <td>10</td> <td>- 3</td> <td>= 7</td> <td>× \$43.00 = \$301.00</td> </tr> <tr> <td colspan="3">Multiple Dependent Claims</td> <td>=</td> <td>× \$145.00 = \$145.00</td> </tr> <tr> <td colspan="3"></td> <td>Subtotal (2)</td> <td>\$734.00</td> </tr> </tbody> </table> <p>*Calculation of Extra Claim Fees</p> <table border="1"> <thead> <tr> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>9</td> <td>Claims in excess of 20</td> </tr> <tr> <td>86</td> <td>43</td> <td>Independent claims in excess of 3</td> </tr> <tr> <td>290</td> <td>145</td> <td>Multiple dependent Claim</td> </tr> <tr> <td>84</td> <td>42</td> <td>Reissue independent claims over original patent</td> </tr> <tr> <td>18</td> <td>9</td> <td>Reissue claims in excess of 20 and over original patent</td> </tr> </tbody> </table>			Large Entity Fee	Small Entity Fee	Fee Description	160	80	<input type="checkbox"/> Provisional Filing Fee	770	385	<input checked="" type="checkbox"/> Utility Filing Fee	340	170	<input type="checkbox"/> Design Filing Fee	770	385	<input type="checkbox"/> Reissue Filing Fee			Subtotal (1) \$385.00	Number Claims	Prior	Extra	Fee from Below*	Fee Paid	Total	52	- 20	= 32	× \$9.00 = \$288.00	Indep.	10	- 3	= 7	× \$43.00 = \$301.00	Multiple Dependent Claims			=	× \$145.00 = \$145.00				Subtotal (2)	\$734.00	Large Entity Fee	Small Entity Fee	Fee Description	18	9	Claims in excess of 20	86	43	Independent claims in excess of 3	290	145	Multiple dependent Claim	84	42	Reissue independent claims over original patent	18	9	Reissue claims in excess of 20 and over original patent																																																		
Large Entity Fee	Small Entity Fee	Fee Description																																																																																																															
160	80	<input type="checkbox"/> Provisional Filing Fee																																																																																																															
770	385	<input checked="" type="checkbox"/> Utility Filing Fee																																																																																																															
340	170	<input type="checkbox"/> Design Filing Fee																																																																																																															
770	385	<input type="checkbox"/> Reissue Filing Fee																																																																																																															
		Subtotal (1) \$385.00																																																																																																															
Number Claims	Prior	Extra	Fee from Below*	Fee Paid																																																																																																													
Total	52	- 20	= 32	× \$9.00 = \$288.00																																																																																																													
Indep.	10	- 3	= 7	× \$43.00 = \$301.00																																																																																																													
Multiple Dependent Claims			=	× \$145.00 = \$145.00																																																																																																													
			Subtotal (2)	\$734.00																																																																																																													
Large Entity Fee	Small Entity Fee	Fee Description																																																																																																															
18	9	Claims in excess of 20																																																																																																															
86	43	Independent claims in excess of 3																																																																																																															
290	145	Multiple dependent Claim																																																																																																															
84	42	Reissue independent claims over original patent																																																																																																															
18	9	Reissue claims in excess of 20 and over original patent																																																																																																															

Submitted by:

Name: Maria S. Swiatek, Reg. No. 37,244 for Aldo J. Test	Reg. No.: 18,048	Telephone: 650-494-8700
DORSEY & WHITNEY LLP	Four Embarcadero Center, Suite 3400 San Francisco, California 94111-4187	Customer Number 32940
Signature:		Date: February 20, 2004